



# ***STIC Search Report***

## ***Biotech-Chem Library***

**STIC Database Tracking Number: 188368**

**TO: YEVGENY VALENROD**

**Location: REM/5D18/5C18**

**Art Unit: 1621**

**May 4, 2006**

**Case Serial Number: 10/721479**

**From: P. Sheppard**

**Location: Remsen Building**

**Phone: (571) 272-2529**

**sheppard@uspto.gov**

### **Search Notes**

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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Yevgeny Valenrod Examiner #: 82310 Date: 05/02/2006  
Art Unit: 1621 Phone Number: 2-9049 Serial Number: 10/721,479  
Location (Bldg/Room#): 5D18 (Mailbox #): 5C18 Results Format Preferred (circle): PAPER DISK  
\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Method for producing tetrahydroborates

Inventors (please provide full names): Seijirou Suda; Zhoupeng Li; Yasuyoshi Iwase;  
Nobuto Morigasaki

Earliest Priority Date: 11/25/2003

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Search: a method for producing tetrahydroborates  
from borates, with  $H_2$ ,  $MH$ , are used. tetrahydroborate.  
↓  
tetrahydroborates (Lithium/  
Sodium/  
Potassium borohydrates) are  $M^+ BH_4^-$   
M = alkali earth metal.

in claim 3 additional limitation is a hydrogenating catalyst. Hydrogenating catalyst is most likely a trans. metal such as Pd, Pt,

THANK YOU!!!

- Gene.

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=> d his ful

(FILE 'HOME' ENTERED AT 15:10:51 ON 03 MAY 2006)

FILE 'REGISTRY' ENTERED AT 15:11:00 ON 03 MAY 2006

L1 795 SEA ABB=ON PLU=ON TETRAHYDROBORATE OR HYDROBORATE  
 L2 11 SEA ABB=ON PLU=ON SODIUM BOROHYDRATE?/CN OR LITHIUM BOROHYDR?  
 /CN OR POTASSIUM BOROHYDR?/CN  
 L3 104214 SEA ABB=ON PLU=ON METAL OR METALS OR MAGNESIUM  
 L4 128483 SEA ABB=ON PLU=ON BORATE

FILE 'HCAPLUS' ENTERED AT 15:14:33 ON 03 MAY 2006

L5 15523 SEA ABB=ON PLU=ON L1 OR TETRAHYDROBORATE OR HYDROBORATE

FILE 'REGISTRY' ENTERED AT 15:15:58 ON 03 MAY 2006

SET SMARTSELECT ON  
 L6 SEL PLU=ON L2 1- CHEM : 52 TERMS  
 SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 15:16:00 ON 03 MAY 2006

L7 15422 SEA ABB=ON PLU=ON L6  
 L8 15583 SEA ABB=ON PLU=ON L7 OR (SODIUM OR LITHIUM OR POTASSIUM) (2A)  
 BOROHYDR?  
 L9 4137887 SEA ABB=ON PLU=ON L3 OR METAL OR MAGNESIUM  
 L10 166954 SEA ABB=ON PLU=ON L4 OR BORATE  
 L12 15254 SEA ABB=ON PLU=ON L10 (L) L9  
 L14 38473 SEA ABB=ON PLU=ON L10 (L) (RCT/RL OR RACT/RL)  
 L15 250013 SEA ABB=ON PLU=ON L9 (L) (RCT/RL OR RACT/RL)  
 L16 2579 SEA ABB=ON PLU=ON L12 AND L14  
 L17 1952 SEA ABB=ON PLU=ON L16 AND L15

FILE 'REGISTRY' ENTERED AT 15:21:10 ON 03 MAY 2006

L18 104576 SEA ABB=ON PLU=ON PALLADIUM/BI  
 L19 208 SEA ABB=ON PLU=ON PT/MF

FILE 'HCAPLUS' ENTERED AT 15:28:01 ON 03 MAY 2006

L21 513099 SEA ABB=ON PLU=ON L18 OR L19 OR PALLADIUM OR PLATINUM OR PD  
 OR PT  
 L25 3041 SEA ABB=ON PLU=ON (L5 OR L8) (L) (PREP?/RL OR PREP OR PREPARTIO  
 N)  
 L26 78 SEA ABB=ON PLU=ON L17 AND L25  
 L27 11 SEA ABB=ON PLU=ON L26 AND L21  
 L28 9 SEA ABB=ON PLU=ON L27 AND PD=<NOVEMBER 25, 2003  
 D STAT QUE  
 D IBIB ABS HITSTR L28 1-9  
 L29 2 SEA ABB=ON PLU=ON L27 NOT L28  
 D STAT QUE L29  
 D IBIB ABS HITSTR L29 1-2  
 L30 524 SEA ABB=ON PLU=ON (L5 OR L8) (L) (PURIFI?/RL OR PURIFI? OR  
 RECOVER?)  
 L31 152 SEA ABB=ON PLU=ON L30 AND L10 AND L9  
 L32 38 SEA ABB=ON PLU=ON L31 AND L9 AND L21  
 L33 36 SEA ABB=ON PLU=ON L32 NOT (L27 OR L28)  
 D STAT QUE  
 D IBIB ABS HITSTR L33 1-36  
 L44 294 SEA ABB=ON PLU=ON "SUDA S"/AU OR "SUDA SEIJIRAU"/AU  
 L45 1522 SEA ABB=ON PLU=ON LI Z ?/AU OR "LI ZHOUPENG"/AU  
 L46 52 SEA ABB=ON PLU=ON "IWASE Y"/AU OR ("IWASE YASUTOSHI"/AU OR  
 "IWASE YASUYOSHI"/AU)  
 L47 8 SEA ABB=ON PLU=ON ("MORIGASAKI N"/AU OR "MORIGASAKI NOBUTO"/A

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U)  
L48 7 SEA ABB=ON PLU=ON L47 NOT (L33 OR L27 OR L28)  
L49 5 SEA ABB=ON PLU=ON L44 AND L45 AND L46  
L50 44 SEA ABB=ON PLU=ON L44 AND (L45 OR L46)  
L51 5 SEA ABB=ON PLU=ON L45 AND L46  
L52 46 SEA ABB=ON PLU=ON L48 OR L49 OR L50 OR L51  
L53 46 SEA ABB=ON PLU=ON L52 NOT (L33 OR L27 OR L28)  
D STAT QUE L53  
D IBIB ABS L53 1-46

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 MAY 2006 HIGHEST RN 882569-16-6  
DICTIONARY FILE UPDATES: 2 MAY 2006 HIGHEST RN 882569-16-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
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Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE HCAPLUS

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FILE COVERS 1907 - 3 May 2006 VOL 144 ISS 19  
FILE LAST UPDATED: 2 May 2006 (20060502/ED)

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This file contains CAS Registry Numbers for easy and accurate  
substance identification.

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